

The National Cancer Data Base: Review of Issues Related to Access to Care and Treatment Patterns

Susan DesHarnais, Ph.D.
American College of Surgeons

WHAT IS THE NCDB?

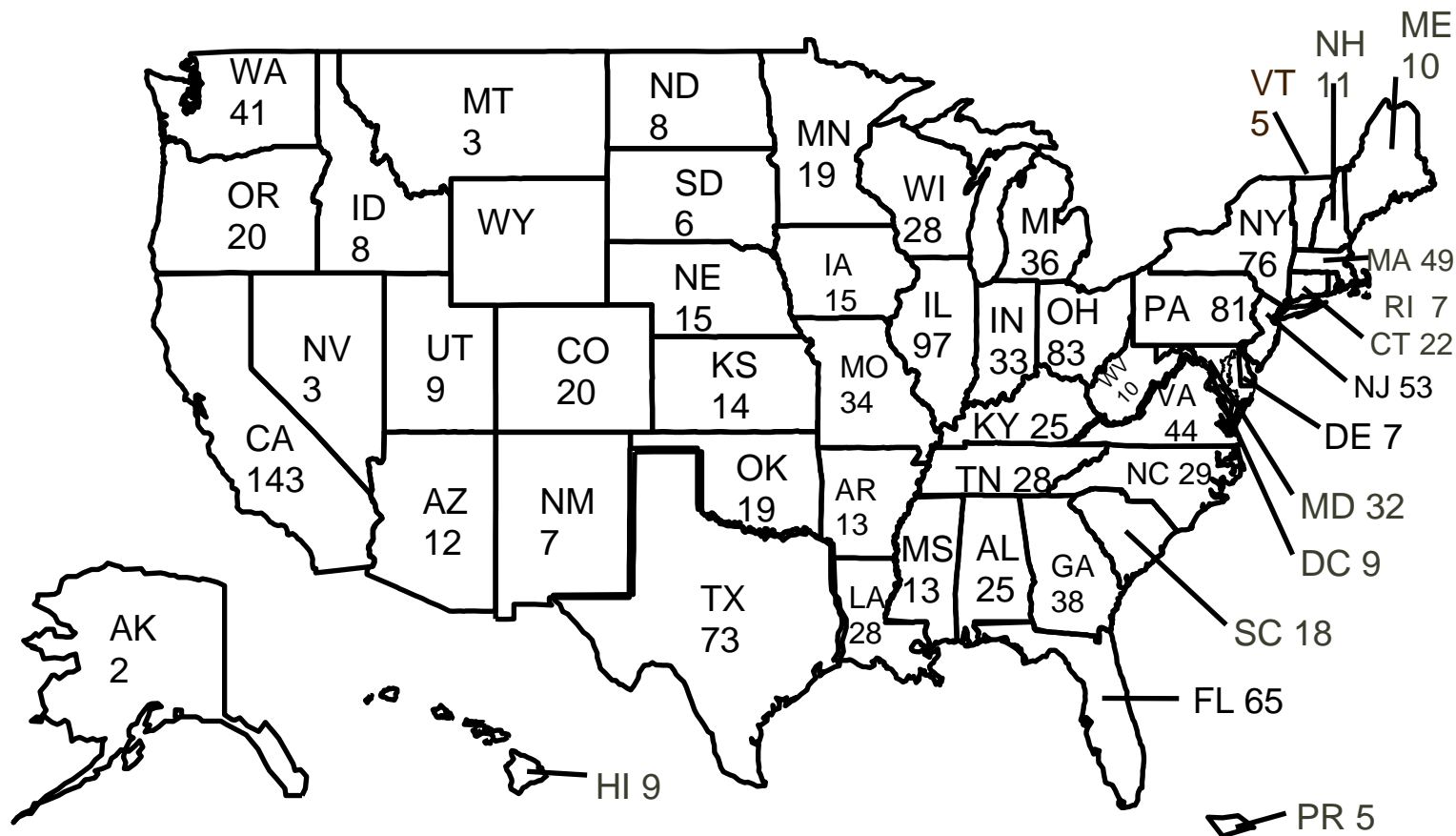
The database has been used as a clinical surveillance mechanism, monitoring changes and variations in patterns of cancer care and patient outcomes.

Records include many of the demographic, clinical, and health system data elements necessary to assess the quality of care. We can compare and document changes in treatment patterns over time, to better understand dissemination patterns of new techniques for cancer treatment

Characteristics of ACoS and non-ACoS Hospitals

- American Hospital Association (AHA) Data show that ACoS approved hospitals are about 25% of all AHA hospitals
- ACoS hospitals less likely to be located in counties that are:
 - in rural areas
 - have low income
 - have low educational attainment

Distribution of Hospitals with Approved Cancer Programs by State



January 2001

N = 1,460

Stage at Diagnosis, for Women Diagnosed with Cancer of the Cervix in the United States, by Average County Income (NCDB Data, 1993-98)

- 58% of women in the lowest income counties were diagnosed at **stage 0**, compared to 72% of women in the middle to high income counties
- 19% of women in the lowest income county were diagnosed at **stages III or IV**, compared to 12% of women in the middle to high income counties

**Treatment of Women Diagnosed with Cancer of the Cervix,
by Ethnicity and Stage at Diagnosis
(NCDB Data, 1993-98)**

Ethnicity	AJCC Stage at Diagnosis	Treated	Not Treated	Number of Cases
White	0	91%	9%	72,427
	I	96%	4%	9,541
	II/III	93%	7%	14,032
	IV	76%	24%	3,974
Black	0	84%	14%	11,344
	I	92%	8%	1,467
	II/III	91%	9%	3,696
	IV	74%	26%	986

Differences in rates of non-treatment between white and black women are statistically significant for all stages (binomial, 01)

Treatment Patterns for Women Diagnosed with Cancer of the Cervix, by Insurance Status and Stage at Diagnosis (NCDB Data, 1993-98)

Insurance Status		Type of Treatment				
	AJCC Stage at Diagnosis	Surgery Alone	Radiation Alone	Other	None	Number of Cases
No Insurance	0	87%	0%	1%	12%	3,650
	I	86%	3%	7%	4%	555
	II/III	9%	35%	53%	3%	1,345
	IV	4%	21%	66%	9%	341
Medicaid	0	87%	0%	0%	13%	6,019
	I	83%	3%	9%	5%	875
	II/III	6%	46%	44%	4%	1,812
	IV	4%	34%	61%	12%	421
Medicare	0	91%	0%	3%	7%	2,057
	I	67%	9%	17%	7%	742
	II/III	6%	58%	29%	7%	2,764
	IV	4%	43%	32%	21%	869
Other/Private Insurance	0	94%	0%	0%	6%	23,645
	I	89%	1%	7%	3%	3,980
	II/III	9%	41%	44%	6%	4,344
	IV	2%	37%	45%	16%	1,010